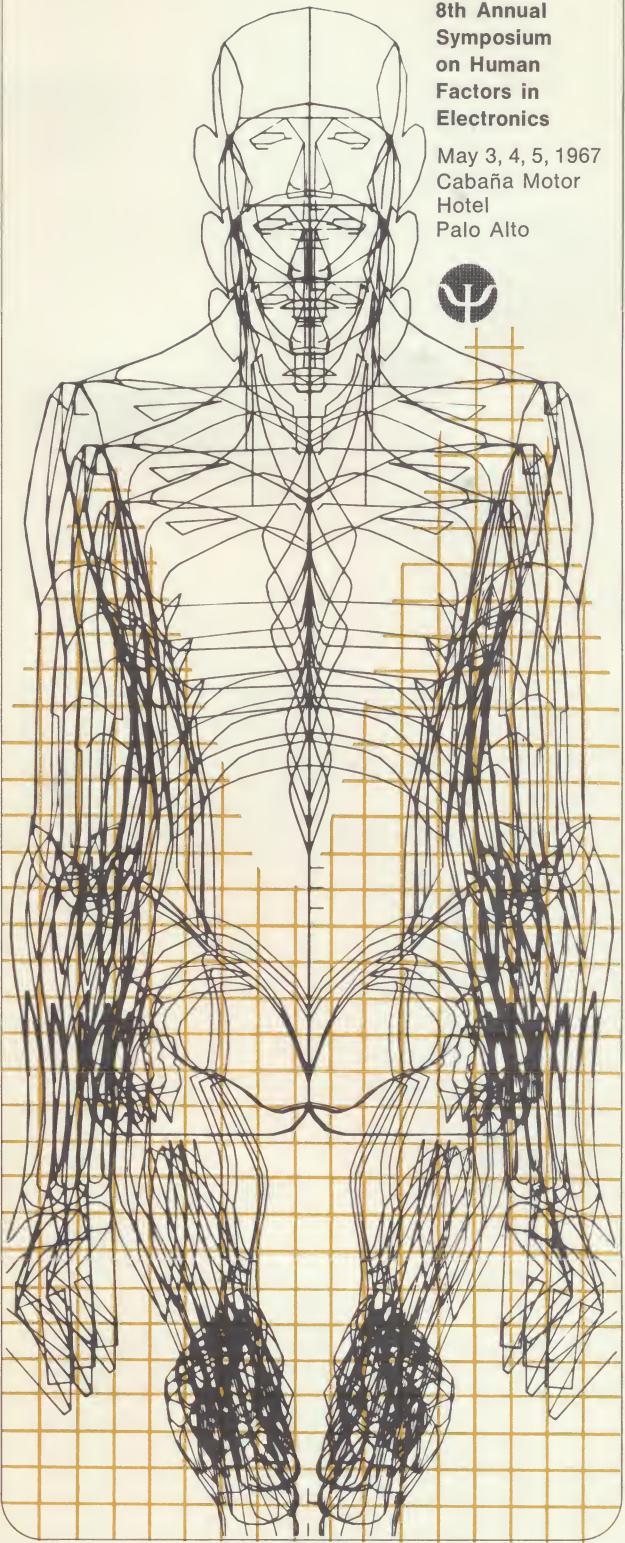


I.E.E.E.

8th Annual  
Symposium  
on Human  
Factors in  
Electronics

May 3, 4, 5, 1967  
Cabaña Motor  
Hotel  
Palo Alto





Advance  
Program  
8th Annual  
Symposium  
on Human  
Factors in  
Electronics  
Theme:  
Automation-  
Performance-  
Acceptance:  
Compromises  
in System  
Design  
May 3-4-5,  
1967  
Palo Alto  
Cabaña  
Motor Hotel

Drawing produced by  
Computer Graphics,  
The Boeing Company

**Technical Tours** Stanford Linear Accelerator and Stanford Automated Teaching Center May 4, 1:30  
NASA-Ames Research Center May 4, 1:30

**Optional Night Life Tour** To San Francisco, including dinner May 3, 7:30-12:30

**Exhibits** Scientific and commercial exhibits of interest to human factors engineers.

**Hosted Cocktail Hours**

May 3, 5:30-7:30  
May 4, 6:00-7:30

**Organized Luncheons and Banquet**

(with noted speakers)  
May 3, 12:00-2:00  
May 4, 7:45-9:00  
May 5, 12:15-2:00

**Women's Activities**

May 3, 8:30-4:00

Welcome Address (at Cabaña)  
Stanford University (campus tour)  
Allied Arts Guild (objets d'art)  
Stanford Shopping Center  
Town and Country (shopping)

May 4, 9:00-4:00

Sunset Magazine Gardens and Offices (tour)  
Mayfield Mall (shopping)  
(Cabaña at lunch time)  
Paul Masson Champagne Cellars (wine tasting and tour)  
Villa Montalvo, Former Governor's Palace (house and garden tour)

**accommodations**

Cabaña Motor Hotel  
4290 El Camino Real  
Palo Alto, California 94036  
Telephone (415) 327-0800  
Cabaña Rates:  
Single \$15.00  
Double \$20.00  
Twin \$20.00

Other motels in close proximity to the Cabaña:

Rickey's Hyatt House  
Dinah's Motor Hotel  
Caravan Inn  
Marco Polo Motel  
International Inn

For reservation information for the above motels, please contact:

Mr. William Ereneta  
Serendipity Associates  
199 1st Street  
Los Altos, California 94022  
Telephone: (415) 941-3300

## technical program

"Toward a Model of Perceptual Narrowing," by Gershon Weltman

9:00-12:00 a.m.

### Session B: Man-Machine Considerations in Sensory Aids Design

#### Tuesday, May 2

6:00-8:00 p.m. Registration, Cabaña Lobby

#### Wednesday, May 3

8:00 a.m. Registration, Cabaña Lobby  
8:30 a.m. Welcome Address by Conference Chairman — Steven E. Belsley, Deputy Assistant Director for Life Sciences, NASA-Ames Research Center, Moffett Field, California

9:00-12:00 a.m. **Session A: Models of Cognitive Processes**

Chairman: Richard D. Smallwood  
Stanford University  
Stanford, California

"Conceptual Models for Human Functioning and Change Processes," by Willis W. Harman

"Human and Artificial Belief Systems," by Kenneth M. Colby

"Diagnostic Decision-Making in a Bayesian Framework," by L. P. Schrenk and A. F. Kanarick

"Modelling the Sonar Operator's Detection Process," by Joseph G. Wohl

"The Effect of Preview on Information Transmission Rate," by William R. Ferrell

12:00-2:00 p.m.

Chairman: Patrick W. Nye  
Willis H. Booth Computing Center  
California Institute of Technology  
Pasadena, California

"Human Factors in the Design of Sensory Aids Displays, Processors, and Sensors," by John K. Dupress

"Towards an Improved Optophone — Experiments with a Musical Code," by Michael P. Beddoes

"A Recognition Type Reading Machine for the Blind," by Glendon C. Smith

"Page Position Selection for Use with a Reading Machine for the Blind," by Donald Troxel

"Recent Progress in the Development of an Electro-Myographically Controlled Limb," by Robert W. Mann

"Research on Phenomena of Electrical Stimulation of Touch and its Possible Application to the Navigational Problems of Blindness," by Robert H. Gibson

"A Viewpoint on Current Man-Machine Problems in Sensory Aid Design and their Influence on Future Research Strategy," by Benjamin W. White

Luncheon — Speaker to be announced

	"Highway Route Coding for Automatic Recognition," by R. H. Emery and J. Z. Grayum		"Multidimensional Aspects of Speech Quality," by F. R. Clarke
	"Human Factors in Transit User Transferring," by Robert B. Sleight	1:30-4:30 p.m.	<b>Session H: New Considerations for Automating and Conceptualizing Electronic Maintenance</b>
	"Surface Effect Vehicle—Aircraft or Ship?", by Alfred Skolnick		Chairman: Bernard Manheimer Center for Naval Analyses of the Franklin Institute Arlington, Virginia
	"A Human Factors Program for Surface Effect Ships," by T. E. Mansfield		"A Minimum-Cost Bayesian Model for Troubleshooting," by R. L. Hershman
	"Human Factors in Ship Concept Formulation," by A. W. Peters and E. M. Ramras		"In-Flight Maintenance: An Essential for Prolonged Manned Space Missions," by Edward P. Goodrich
	"The Dangers of Technology," by Martin Wohl		"Predicting the Maintenance Burden for Alternate Automatic Fault Location Designs," by Bernard Manheimer
1:30-5:00 p.m.	Ames Research Center Tour: Wind Tunnels, Computers, and Research Areas		"Computerized Aid to Signal Tracing," by G. Grant
1:30-5:00 p.m.	Stanford University Tour: Accelerator and Automated Teaching Center		"Human Factors in the Production of Microelectronic Devices," by Robert M. Springer and Douglas H. Harris
1:30-4:30 p.m.	<b>Session G: Measurement of Speech Quality</b>	7:45 p.m.	Symposium Banquet — Speaker to be announced
	Chairman: H. R. Silbiger Bell Telephone Laboratories Holmdel, New Jersey	Friday, May 5 8:30-12:00 a.m.	<b>Session I: Designing Vehicles for Automatic Control and Safety</b>
	"Speech Transmission Quality Evaluation," by H. R. Silbiger and J. L. Sullivan		Chairman: Slade Hulbert Institute of Transportation and Traffic Engineering University of California at Los Angeles, California
	"Evaluation of Communication Systems from the Standpoint of Speaker Recognizability," by W. D. Voiers		"Evolution Toward Automated Highway
	"The Isopreference Method for Speech Quality Measurements," by E. H. Rothauser and G. E. Urbanek		

Transportation," by S. M.  
Breuning

"Automation of the  
Automobile," by R. L.  
Cosgriff and R. E. Fenton

Title to be announced—  
by T. H. Rockwell

"Closed-Loop Directional  
Control of Automobiles,"  
by D. H. Weir

"Simulation of Sudden  
Situations in Automobile  
Driving," by T. B. Sheridan  
and R. D. Roland

"Can Vigilance Be  
Taught?" by E. I. Wiener

8:30-12:00 a.m. **Session J: Displays for  
Aerospace Applications**

Chairman: R. O. Besco  
American Airlines  
Los Angeles, California

"Engineering Design as  
Applied to Simulation for  
Human Factors Research  
Studies," by Ronald D.  
Monroe

"Factors Affecting Design  
of the Head-Up Display,"  
by J. M. Naish

"V/STOL Hover Displays  
— An Analysis and  
Design," by Paul R. Fuller,  
Roger Hardwicke, and  
Jerry Fellinger

"Summary of NASA  
Research on Flight  
Displays," by Roger  
Winblade

"Display Requirements for  
Aircraft Collision  
Avoidance," by Edward  
Eddowes

"Today's Pilot, Mission,  
and Aircraft," by Eric  
Guttmann

12:00-2:00 p.m. Luncheon — Speaker to be  
announced

The registration desk in the lobby of the Cabaña Hotel will be open from 6:00-8:00 p.m., Tuesday, May 2 and from 7:30 a.m. to 5:00 p.m. each day of the meeting. To make advance registration, fill out the registration coupon below and mail to

**Registration Chairman  
IEEE Human Factors Group  
8th Annual Symposium  
William J. Ereneta  
Serendipity Associates  
199 First Street  
Los Altos, California 94022**

Checks should be made out to IEEE HUMAN FACTORS GROUP 8TH ANNUAL SYMPOSIUM. Registration rates are as indicated on the coupon. These rates include a copy of the symposium digest, two luncheons, and the banquet. Additional digests may be purchased at the registration desk.

Name _____	Last	First	Initial
Address _____	No.	Street	City State Zip
Company _____			
Address _____	No.	Street	City State Zip

Wife will  will not  attend symposium (Please check)

Tours: (Please check)

Yes      No

- San Francisco Night Life Tour, 3 May at 6 p.m. \$19.75 (transportation, dinner, drinks and entry into three shows).
- Tour I. NASA facility at the Ames Research Center, 4 May at 1:30 p.m., OR
- Tour II. Stanford University and the Stanford Linear Accelerator Facility, 4 May at 1:30 p.m.

Check Appropriate Spaces	Postmarked before April 20, 1967			After April 20		
Prices include digest	with 2 lunches, 1 dinner	\$25.50	\$12.00	with 2 lunches, 1 dinner	\$27.50	\$14.00
Member: IEEE <input type="checkbox"/>						
Nonmember** <input type="checkbox"/>	\$35.50		\$22.00	\$37.50		\$24.00
Wives' Activities* <input type="checkbox"/>	\$ 3.00			\$ 4.00		

Total Remittance \$ \_\_\_\_\_

\* \$10.00 may be applied towards IEEE membership.

\*\* Cost to include two cocktail parties and transportation for tours.

Place  
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